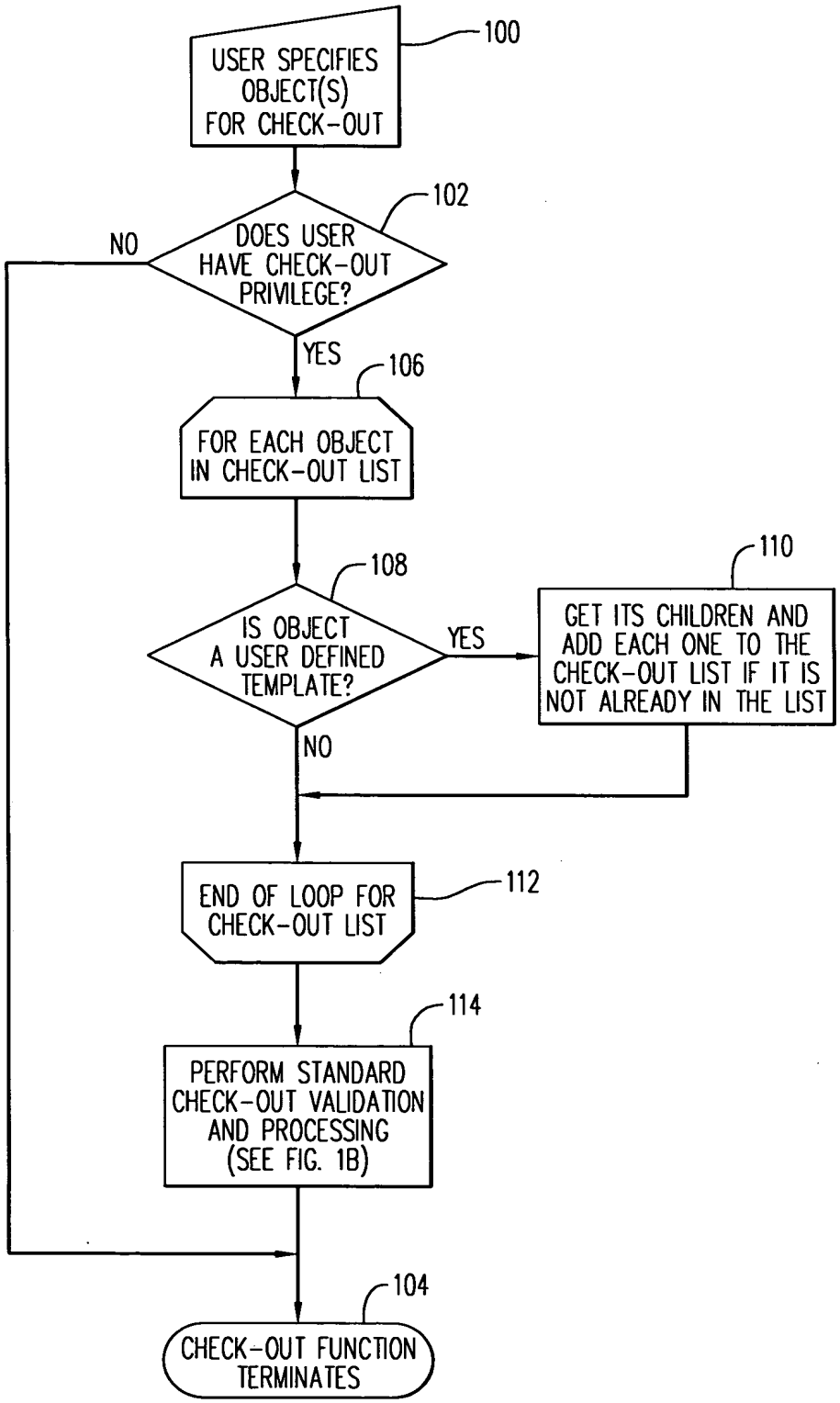
USER SPECIFIES OBJECT(S) FOR CHECK-OUT
100
DOES USER HAVE CHECK-OUT PRIVILEGE?
102
NO
YES
FOR EACH OBJECT IN CHECK-OUT LIST
106
IS OBJECT A USER DEFINED TEMPLATE?
108
YES
GET ITS CHILDREN AND ADD EACH ONE TO THE CHECK-OUT LIST IF IT IS NOT ALREADY IN THE LIST
110
NO
END OF LOOP FOR CHECK-OUT LIST
112
PERFORM STANDARD CHECK-OUT VALIDATION AND PROCESSING (SEE FIG. 1B)
114
CHECK-OUT FUNCTION TERMINATES
104

FIG. 1A

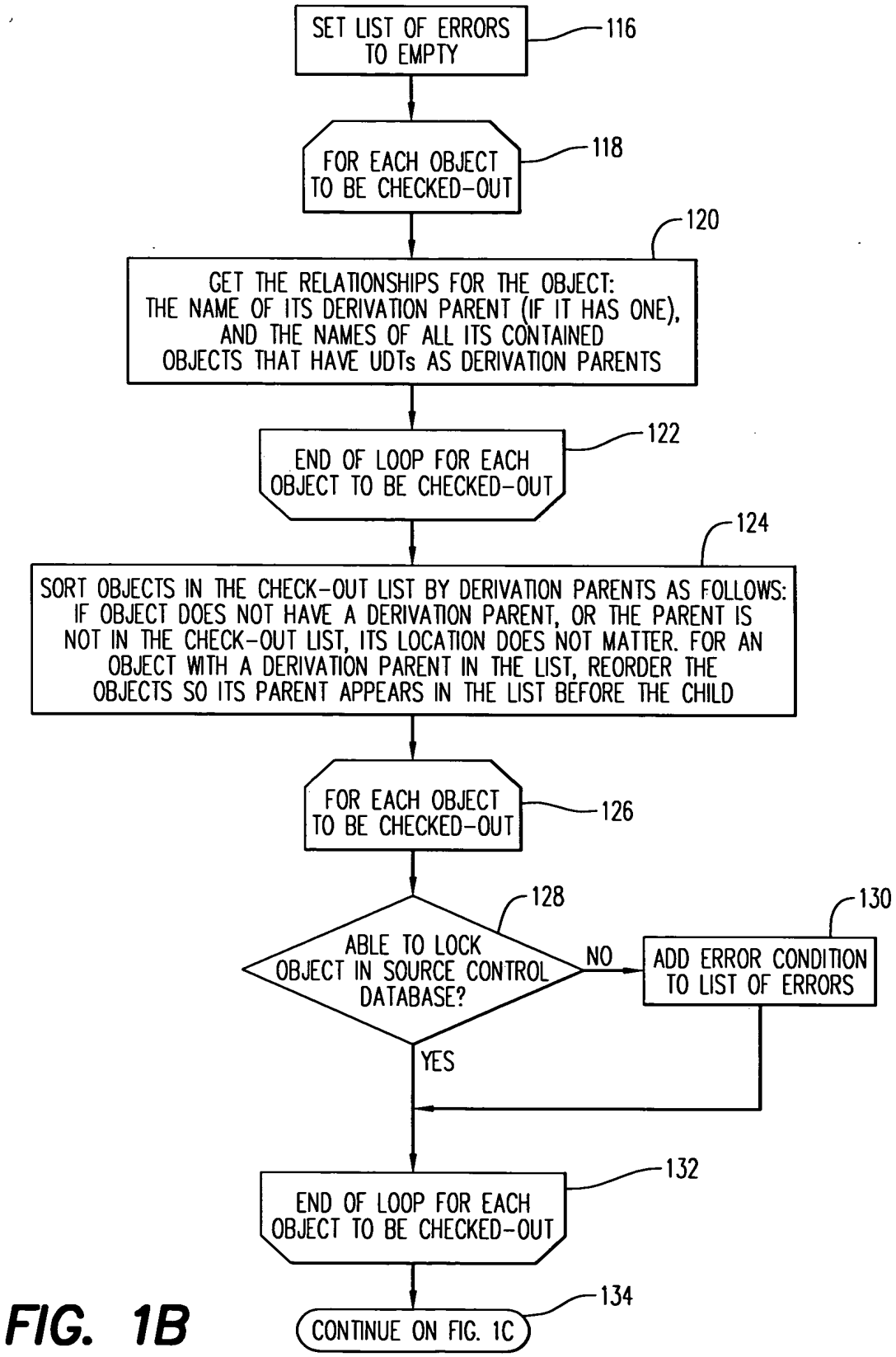
SET LIST OF ERRORS TO EMPTY
116
FOR EACH OBJECT TO BE CHECKED-OUT
118
120
GET THE RELATIONSHIPS FOR THE OBJECT: THE NAME OF ITS DERIVATION PARENT (IF IT HAS ONE), AND THE NAMES OF ALL ITS CONTAINED OBJECTS THAT HAVE UDTs AS DERIVATION PARENTS
END OF LOOP FOR EACH OBJECT TO BE CHECKED-OUT
122
124
SORT OBJECTS IN THE CHECK-OUT LIST BY DERIVATION PARENTS AS FOLLOWS: IF OBJECT DOES NOT HAVE A DERIVATION PARENT, OR THE PARENT IS NOT IN THE CHECK-OUT LIST, ITS LOCATION DOES NOT MATTER. FOR AN OBJECT WITH A DERIVATION PARENT IN THE LIST, REORDER THE OBJECTS SO ITS PARENT APPEARS IN THE LIST BEFORE THE CHILD
FOR EACH OBJECT TO BE CHECKED-OUT
126
128
ABLE TO LOCK OBJECT IN SOURCE CONTROL DATABASE?
NO
130
ADD ERROR CONDITION TO LIST OF ERRORS
YES
END OF LOOP FOR EACH OBJECT TO BE CHECKED-OUT
132
CONTINUE ON FIG. 1C
134

FIG. 1B

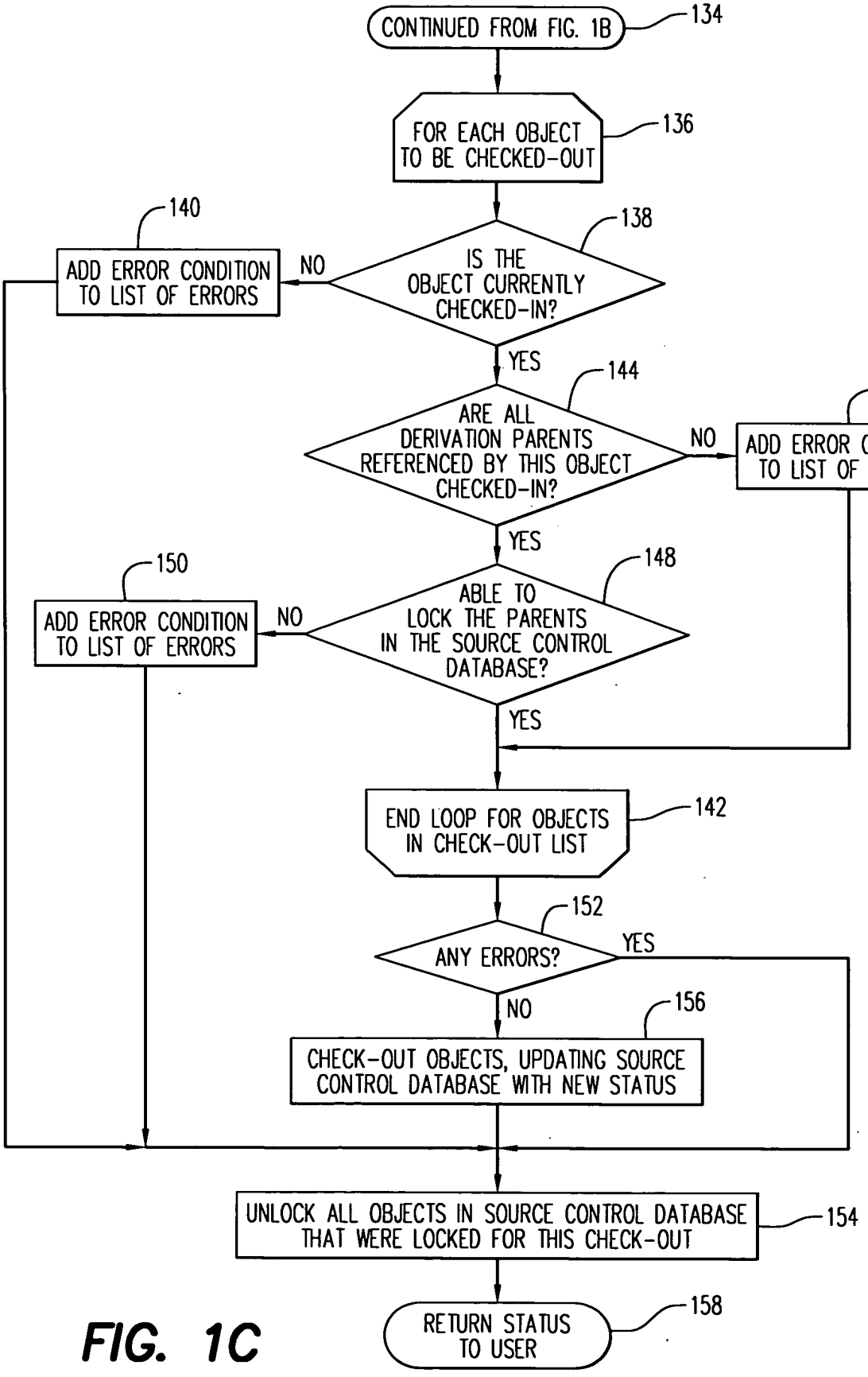
CONTINUED FROM FIG. 1B
134
FOR EACH OBJECT TO BE CHECKED-OUT
136
IS THE OBJECT CURRENTLY CHECKED-IN?
138
NO
140
ADD ERROR CONDITION TO LIST OF ERRORS
YES
ARE ALL DERIVATION PARENTS REFERENCED BY THIS OBJECT CHECKED-IN?
144
NO
146
ADD ERROR CONDITION TO LIST OF ERRORS
YES
ABLE TO LOCK THE PARENTS IN THE SOURCE CONTROL DATABASE?
148
NO
150
ADD ERROR CONDITION TO LIST OF ERRORS
YES
END LOOP FOR OBJECTS IN CHECK-OUT LIST
142
ANY ERRORS?
152
YES
NO
156
CHECK-OUT OBJECTS, UPDATING SOURCE CONTROL DATABASE WITH NEW STATUS
UNLOCK ALL OBJECTS IN SOURCE CONTROL DATABASE THAT WERE LOCKED FOR THIS CHECK-OUT
154
RETURN STATUS TO USER
158

FIG. 1C

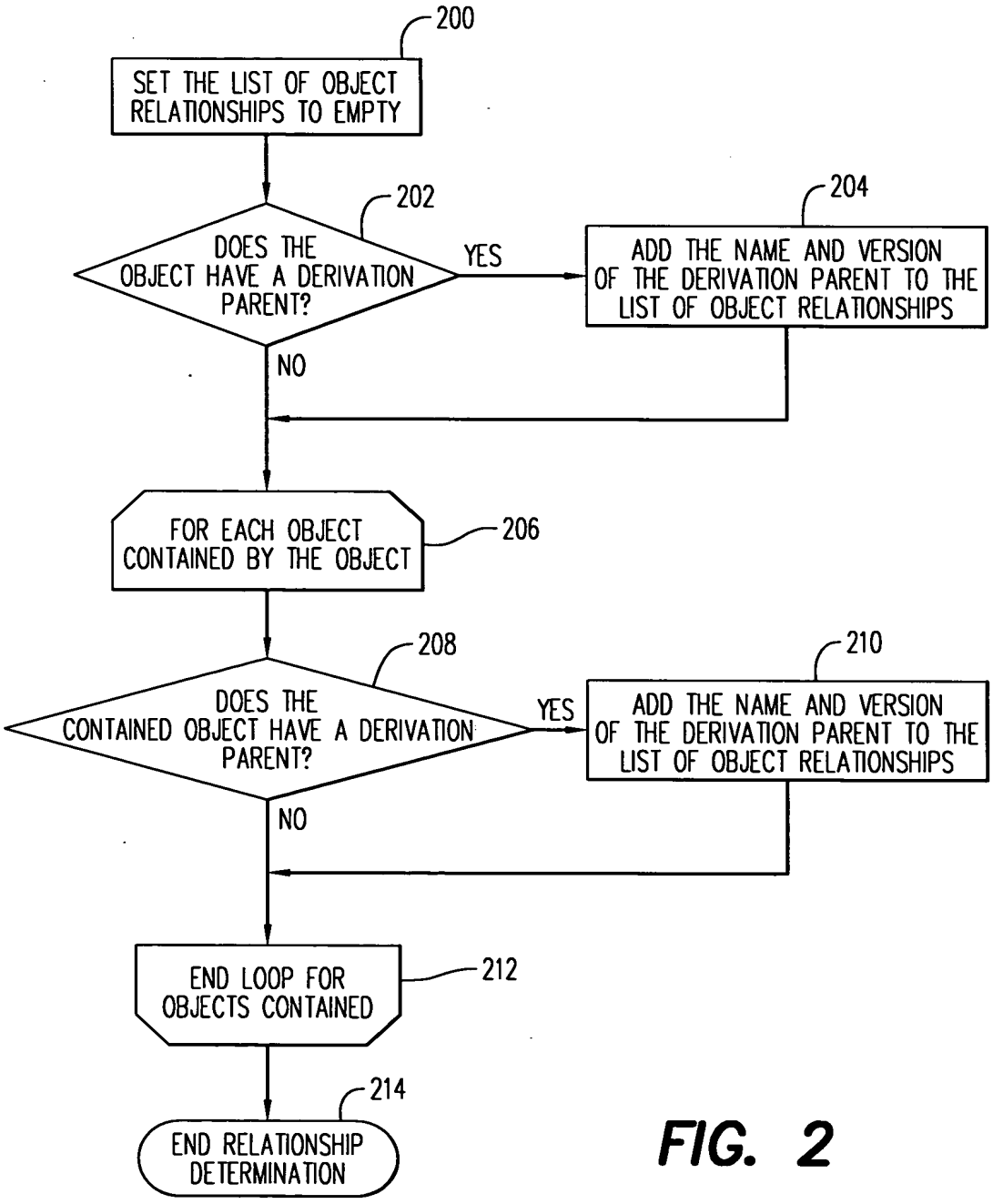
200
SET THE LIST OF OBJECT RELATIONSHIPS TO EMPTY
202
DOES THE OBJECT HAVE A DERIVATION PARENT?
YES
204
ADD THE NAME AND VERSION OF THE DERIVATION PARENT TO THE LIST OF OBJECT RELATIONSHIPS
NO
FOR EACH OBJECT CONTAINED BY THE OBJECT
206
208
DOES THE CONTAINED OBJECT HAVE A DERIVATION PARENT?
YES
210
ADD THE NAME AND VERSION OF THE DERIVATION PARENT TO THE LIST OF OBJECT RELATIONSHIPS
NO
END LOOP FOR OBJECTS CONTAINED
212
214
END RELATIONSHIP DETERMINATION

FIG. 2

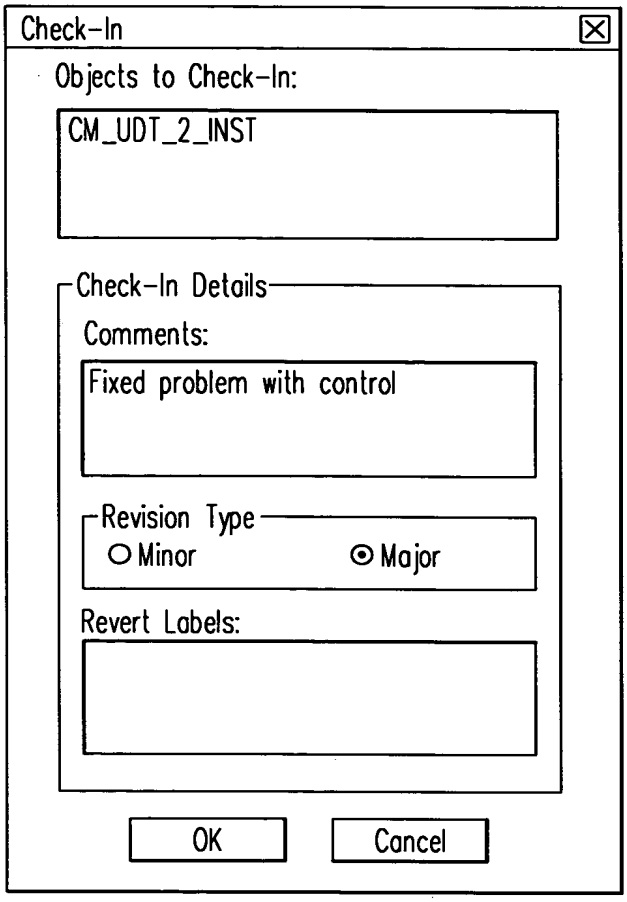
Check-In
Objects to Check-In:
CM_UDT_2_INST
Check-In Details
Comments:
Fixed problem with control
Revision Type
Minor
Major
Revert Labels:
OK
Cancel

FIG. 3

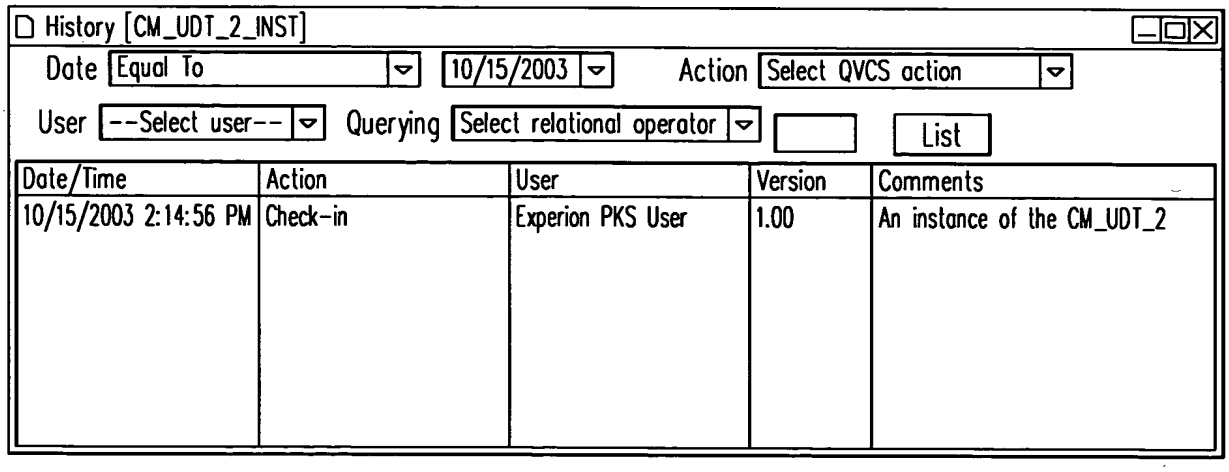
History [CM_UDT_2_INST]
Date
Equal To
10/15/2003
Action
Select QVCS action
User
--Select user--
Querying
Select relational operator
List
Date/Time
Action
User
Version
Comments
10/15/2003 2:14:56 PM
Check-in
Experion PKS User
1.00
An instance of the CM_UDT_2

FIG. 4

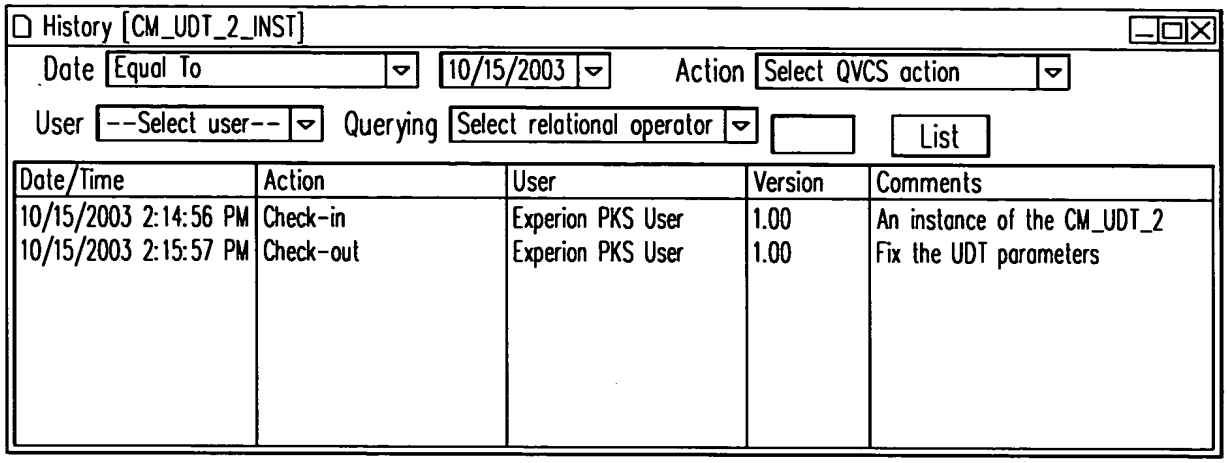
History [CM_UDT_2_INST]
Date
Equal To
10/15/2003
Action
Select QVCS action
User
--Select user--
Querying
Select relational operator
List
Date/Time
Action
User
Version
Comments
10/15/2003 2:14:56 PM
Check-in
Experion PKS User
1.00
An instance of the CM_UDT_2
10/15/2003 2:15:57 PM
Check-out
Experion PKS User
1.00
Fix the UDT parameters

FIG. 5

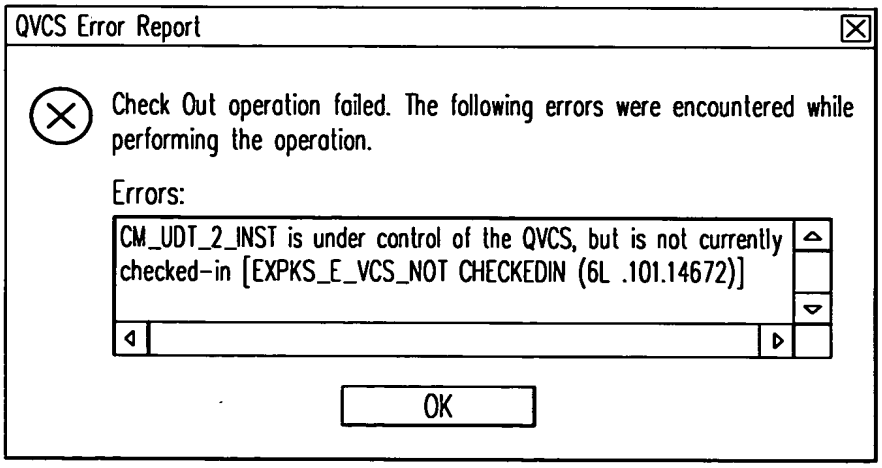
QVCS Error Report
Check Out operation failed. The following errors were encountered while performing the operation.
Errors:
CM_UDT_2_INST is under control of the QVCS, but is not currently checked-in [EXPKS_E_VCS_NOT CHECKEDIN (6L .101.14672)]
OK

FIG. 6

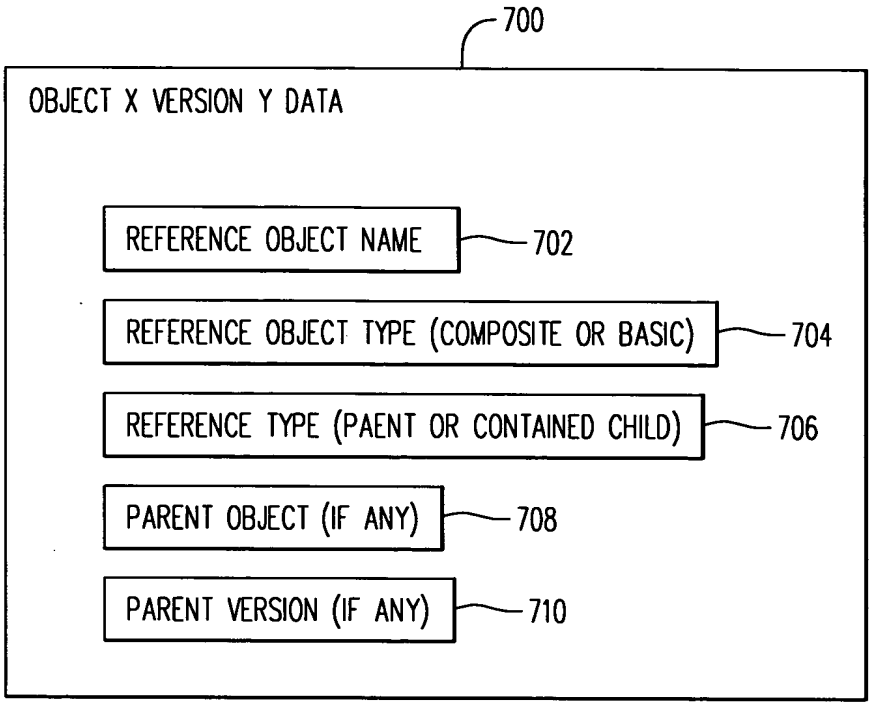
700
OBJECT X VERSION Y DATA
REFERENCE OBJECT NAME
702
REFERENCE OBJECT TYPE (COMPOSITE OR BASIC)
704
REFERENCE TYPE (PAENT OR CONTAINED CHILD)
706
PARENT OBJECT (IF ANY)
708
PARENT VERSION (IF ANY)
710

FIG. 7

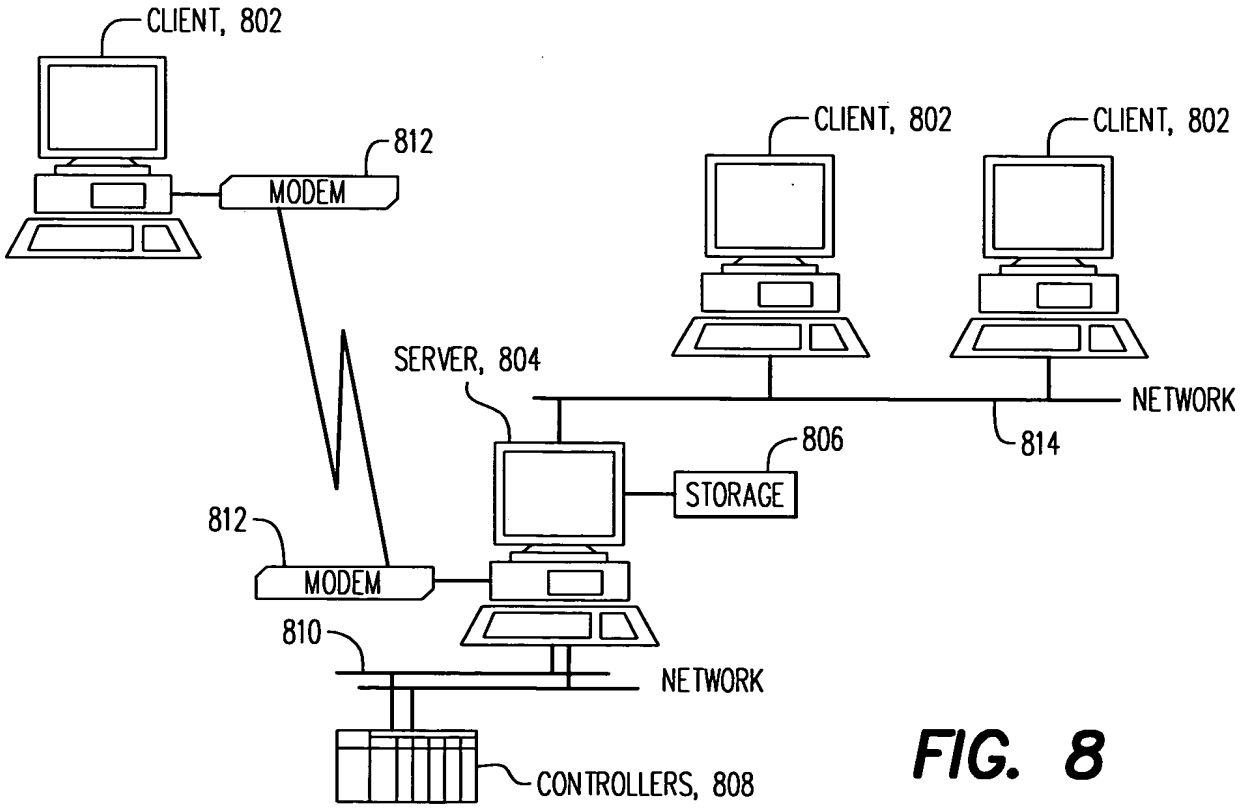
CLIENT, 802
812
MODEM
CLIENT, 802
CLIENT, 802
SERVER, 804
NETWORK
814
806
STORAGE
812
MODEM
810
NETWORK
CONTROLLERS, 808

FIG. 8

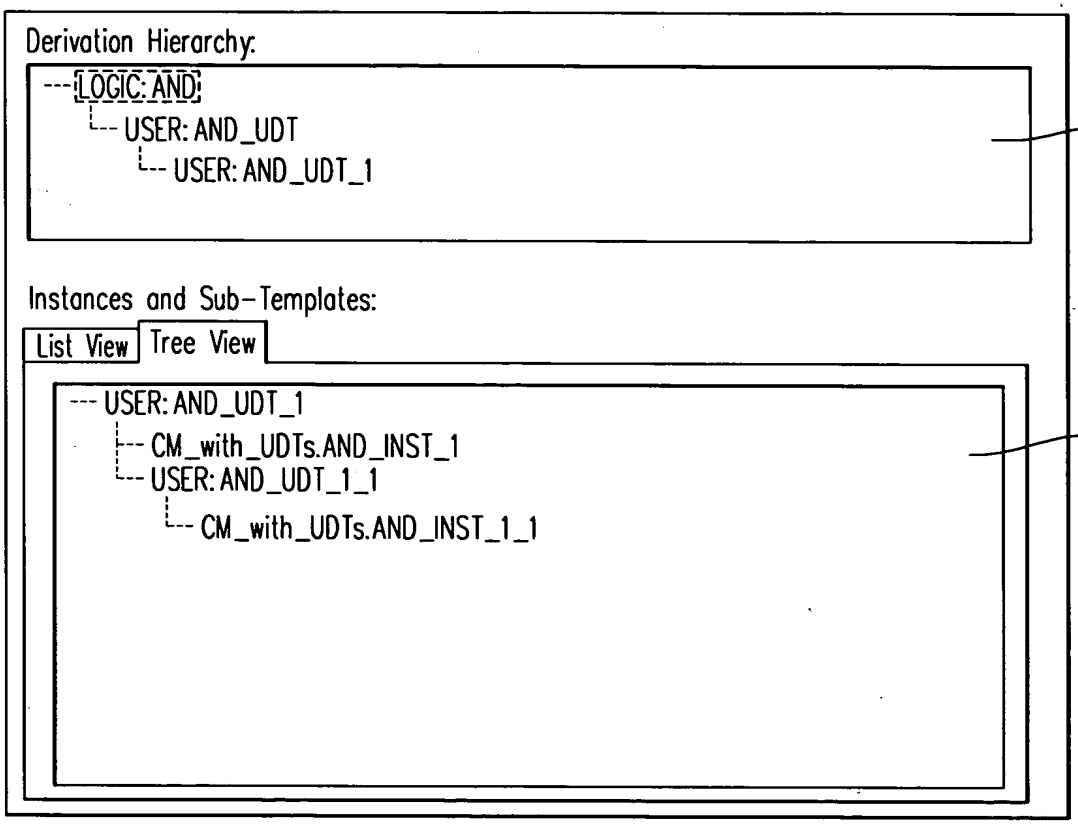
Derivation Hierarchy:
---LOGIC: AND
└-- USER: AND_UDT
└-- USER: AND_UDT_1
900
Instances and Sub-Templates:
List View
Tree View
--- USER: AND_UDT_1
├-- CM_with_UDTs.AND_INST_1
└-- USER: AND_UDT_1_1
└-- CM_with_UDTs.AND_INST_1_1
902

FIG. 9

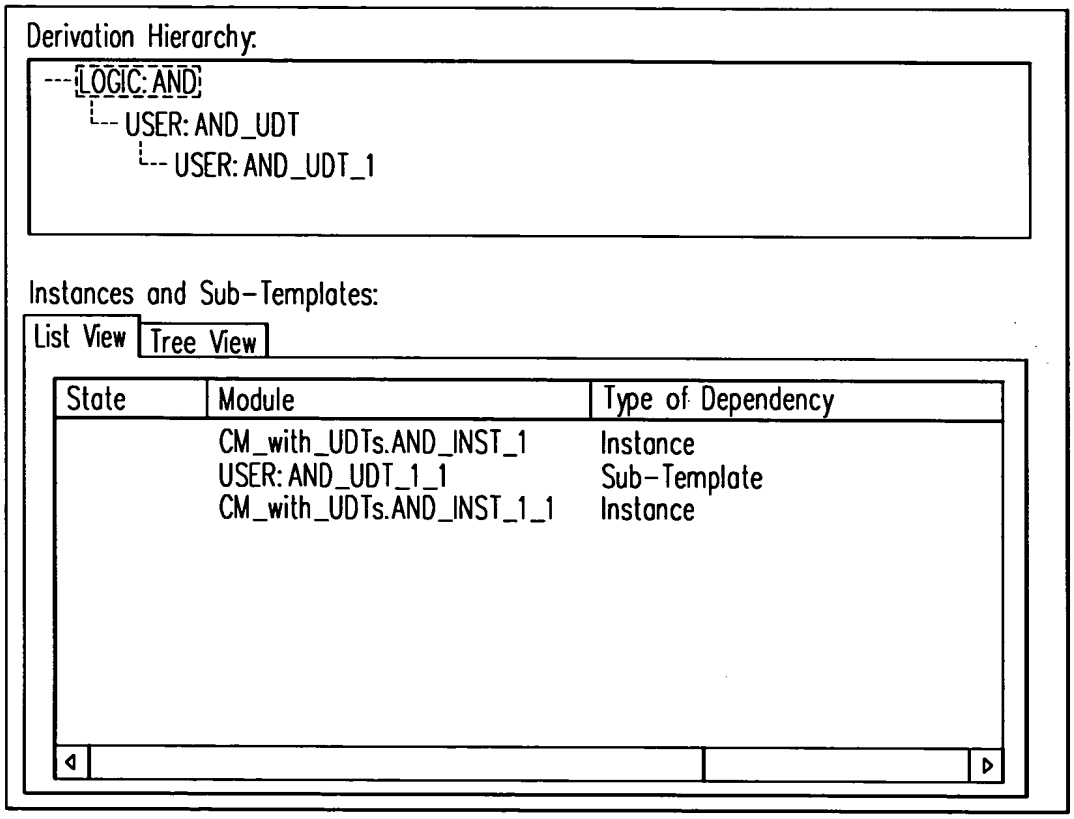
Derivation Hierarchy:
---LOGIC: AND
└-- USER: AND_UDT
└-- USER: AND_UDT_1
Instances and Sub-Templates:
List View
Tree View
State
Module
Type of Dependency
CM_with_UDTs.AND_INST_1
Instance
USER: AND_UDT_1_1
Sub-Template
CM_with_UDTs.AND_INST_1_1
Instance

FIG. 10